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(54) Title: NPAS3 MUTANT MICE AND USES FOR SCREENING AND TESTING THERAPIES FOR SCHIZOPHRENIA AND RELATED NEUROLOGICAL DISORDERS

(57) Abstract: A transgenic mouse with a gene-targeted mutation of the *Npas3* gene, and a model of schizophrenia and related neurological disorders such as Obsessive-Compulsive Disorder, Tourette's Syndrome, and bipolar disorders, and other neurological disorders affecting locomotor activity, including Parkinson's Disease. A method is also provided for use of the *Npas3*-deficient mouse for testing the efficacy of a biologically active agent as a treatment for schizophrenia and related neurological disorders. The methods further includes uses of cells and cell lines derived from an *Npas3*-deficient mouse to screen biologically active agents that can alter biochemical pathways involved in schizophrenia and related neurological disorders, including those affecting locomotion.

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